

The end bend and tripper pulleys are of strong construction, and turned and balanced to eliminate vibration. When necessary the pulleys are coated with rubber to give better driving power. The rubber is securely attached by vulcanising the rubber under pressure to a copper-plated pulley.

The correct tension in the conveyor belt is maintained by adjusting the position of one of the end pulleys. This is generally effected by mounting

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the adjusting pulley shaft; hearings on slides, controlled by screws so that the tension can be adjusted. The slide, which is shown in Fig. 17, is graduated in divisions of 1/4 in., so that actual adjustment in both screws is easily ensured. In certain cases, such as where a belt conveyor is inclined, a variation in the length of the belt, which causes a tension is provided, which automatically keeps the correct tension on the belt.

The coal conveyed by the belt can be discharged at the end of

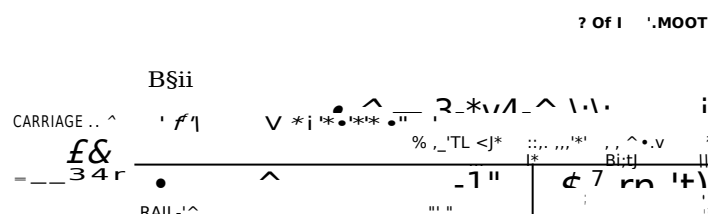


Fig. 17. —Travelling Tripper

the conveyor or at any intermediate point by the installation of a fixed or travelling tripper.

The general features of a travelling tripper are shown in Fig. 17, from which it will be seen that the apparatus consists of a framework running on wheels mounted on a track, and carrying two pulleys over which the belt

passes. A double shoot is provided immediately in front of the upper pulley, and the whole arrangement is such that the coal on the belt is thrown into the shoot as the belt passes round the upper pulley. The path of the belt is shown in fig. 17. The double shoot may be fitted with a throw-over valve to direct the stream of coal to either side as desired. Travel-